NC/QC/YD-W03/2019-20/WS-C3a

Date: 08-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-07-19	08-08-19	28	22500	735	32.67	**32.67**
	002	"	"	"	"	740	32.89	
	003	"	"	"	"	730	32.44	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
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Page No. 1/1,

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NC/QC/YD-W03/2019-20/WS-C2a

Date: 08-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-07-19	08-08-19	28	22500	720	32.00	32.37
	002	"	"	"	"	720	32.00	
	003	"	"	"	"	745	33.11	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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NC/QC/YD-W03/2019-20/WS-CB1a

Date: 07-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-07-19	07-08-19	28	22500	730	32.44	**32.52**
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	740	32.89	

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NC/QC/YD-W03/2019-20/WS -CA1

Date: 09-07-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}

Ref.: Material testing/QC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.25	85-100	90 - 100
10 mm	53.05	0 - 20	25 - 55
4.75 mm	8.60	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.45 %	Not to exceed 25 %
2.	Crushing value	29.65 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YD-W03/2019-20/WS -FA1

Date: 09-07-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	97.35	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.10	60-95	75-100	85-100	
01.18	59.60	30-70	55-90	75-100	
600. mic	46.75	15.34	35-59	60-79	
300.mic	24.20	5-20	8-30	12-40	
150.mic	6.70	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.85 %	-----
2	Silt Content	----	0.60 %	Not more than 8%
3	Specific Gravity	----	2.61	-------

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NC/QC/YD-W03/2019-20/WS -C3

Date: 09-07-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	184 min	Shall not be less than 30 min
2	Final setting time	278min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.14 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.97 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	28.42 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YD-W03/2019-20/WS -PCC1 Date: 08-07-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	100 00	100 00
20mm	95.30	85-100	95 - 100
10mm	47.10	0 - 20	25 - 55
4.75mm	7.65	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	99.05	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.60	60-95	75-100	85-100	
01.18	70.95	30-70	55-90	75-100	
600.mic	53.45	15-34	35-59	60-79	
300.mic	20.70	5-20	8-30	12-40	
150.mic	7.25	0-10	0-10	0-10	

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NC/QC/YD-W03/2019-20/WS -C1

Date: 08-07-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	187 min	Shall not be less than 30 min
2	Final setting time	274 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.86 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.91 mm	Shall not be more than 10 mm
5	Compressive strength a) days (average of three results)	28.04 N/Sq mm	Shall not be less than 27 N/Sqmm

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Date: 05-07-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.81%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.66%	Not more than 35.0 %
3.	Water absorption, %	0.39 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Date: 05-07-2019

NC/QC/YD-W03/2019-20/WS-W1

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Providing Borewell water pipe lines Water Supply works at ward no.03.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.30	95-100
26.50	---	-
22.40	64.95	60-80
11.20	49.05	40-60
4.75	37.50	25-40
2.36	19.25	15-30
0.600	20.05	8-22
0.075	3.70	0-5

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